CMS Simulation (LHE) 13 TeV

$pp \rightarrow h \rightarrow 2n_1 \rightarrow 2n_D + 2\,\gamma_D \rightarrow 2n_D + 4\mu$

$m_h = 125$ GeV, $m_{n_1} = 10$ GeV, $m_{n_D} = 1$ GeV

$m_{\gamma_D} = 0.275$ GeV, $c\tau_{\gamma_D} = 2.$ mm

— 1st dark photon (leading p_T)

— 2nd dark photon

Fraction of events / 0.1 rad

ϕ of γ_D [rad]